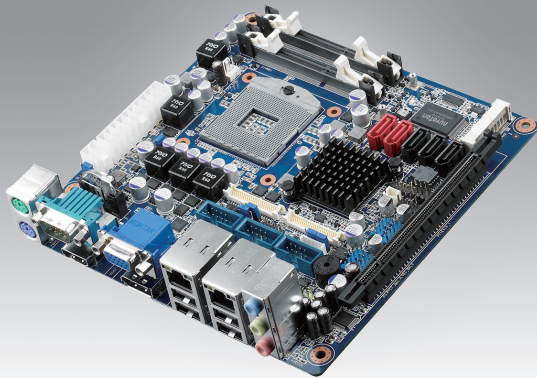


SIMB-M21

**Intel® Core™ i7//i5/i3/Celeron® Mini-ITX
with VGA/HDMI/LVDS/Display Port, 4 COM
and Dual LAN**



CE FCC

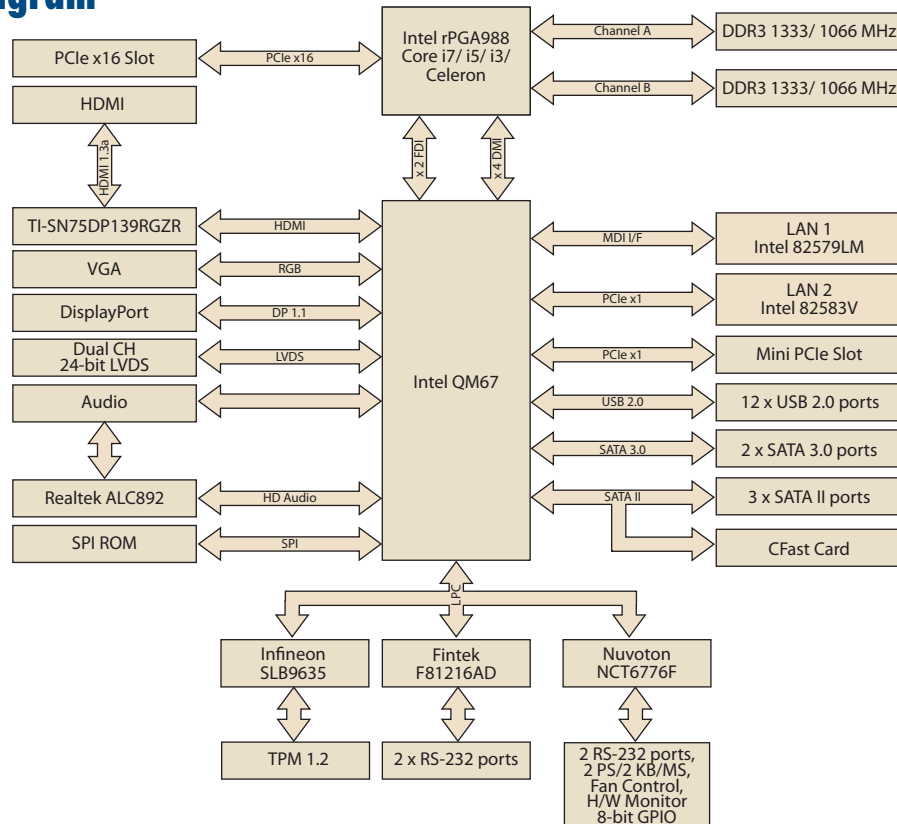
Specifications

Features

- Intel rPGA988 socket supports Mobile Intel® Core™ i7/ i5/ i3/ Celeron® processor
- Intel QM67 chipset
- Intel GMA HD 2000/ 3000 supports DirectX 10.1, OpenGL 3.0
- Two 204-pin SODIMM sockets supports up to 16GB DDR3 1333/ 1066 SDRAM
- Dual Intel Gigabit LAN : Intel 82579LM (LAN 1), Intel 82583V (LAN 2)
- Supports multiple dual display functions : VGA, HDMI, DisplayPort, dual channel 24-bit LVDS
- 1 PCIe x16 Gen. 2, 1 mini PCIe, 1 CFast
- 2 SATA 3.0 and 3 SATA II supports RAID 0, 1, 5, 10
- 4 COM (3 with Power), 12 USB 2.0

Processor System	CPU	Intel Core i7-2710QE	Intel Core i5-2510E	Intel Core i3-2310E	Intel Celeron B810	
	Core Number	4	2	2	2	
	Max. Speed	2.1 Ghz	2.5 Ghz	2.1 Ghz	1.6 Ghz	
	L2 Cache	6 MB	3 MB	3 MB	2 MB	
	Chipset	Intel QM67				
	BIOS	AMI 16 Mbit , SPI				
Expansion Slots	PCI	-				
	PCIe x16	4.0 GB/s per direction, 1 slot				
	PCIe	-				
	Mini-PCIe	250 MB/s per direction, 1 slot				
Memory	Technology	Dual channel DDR3 1066/1333 MHz				
	Max. Capacity	16 GB				
	Socket	2 x 204-pin DIMM				
Graphics	Controller	Intel Graphics Media Accelerator HD 2000/3000				
	VRAM	Shared system memory up to 1.7 GB SDRAM				
	VGA	Supports max. resolution 2048 x 1536				
	LVDS	Dual channel 24-bit LVDS supports max resolution 1600 x 1200				
	HDMI	HDMI 1.3 supports max resolution 1920 x 1080				
	Display Port	Supports max resolution 2560 x 1600				
Ethernet	Dual Display	VGA + LVDS, VGA + DisplayPort, VGA + HDMI, DisplayPort + HDMI, LVDS + HDMI, LVDS + DisplayPort				
	Interface	10/100/1000 Mbps				
	Controller	GbE-LAN1: Intel 82579LM , GbE-LAN2: Intel 82583V				
	Connector	RJ-45 x 2				
SATA	Max Data Transfer Rate	600 MB/s (SATA 3.0)/ 300 MB/s (SATA 2.0)				
SSD	Channel	3/2				
Rear I/O	Cfast	1				
	VGA	1				
	Display Port	1				
	HDMI	1				
	Ethernet	2				
	USB	4				
	Audio	3 (Line-out, Line-in, Mic-in)				
	Serial	1 (RS-232)				
Internal Connectors	PS/2	2 (1 x keyboard and 1 x mouse)				
	LVDS & Inverter	1				
	USB	8				
	Serial	3 (RS-232)				
	SATA	5 (2 SATA III, 3 SATA II)				
	GPIO	8-bit (4-bit DI and 4-bit DO)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1~ 255 sec/min				
Security	TPM	Onboard TPM 1.2 by Infineon SLB9635				
Power Requirement	Power On	Intel i7-2710QE 2.1GHz , 8GB DDR3 1333 SDRAM				
		+12 V	+5 V	+3.3 V	5 VSV	-12 V
		4.86 A	1.28 A	1.05 A	0.36 A	0.41 A
Environment	Temperature	Operating		Non-Operating		
		0 ~ 60° C (32 ~ 140° F)		-20 ~ 70° C (-4 ~ 158° F)		
Physical Characteristics	Dimensions	170 x 170 mm (6.69" x 6.69")				
	Weight	0.47 Kg (1.03 lbs)				

Block Diagram



Ordering Information

P/N	CPU	Chipset	VGA	GbE	USB	COM	SATA
SIMB-M21-7G200A1E	Intel Core i7/i5/i3/ Celeron Mobile Processor	Intel QM67	1	2	12 (4 Rear, 8 Internal)	4 x RS-232 (1 Rear, 3 Internal)	5 (2 SATA III, 3 SATA II)

Note: Minimum order quantity is 200 pieces

Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	2
I/O shield	1
Serial port cable	2
Startup manual	1
Driver CD	1 (per 10 units)

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with two ports, 30.5 cm
1700008822	DVI cable

I/O View

